

Transforming Technology and Research into Practice



CONFERENCE AGENDA

Monday, August 30, 2004

5:00 - 7:00 Conference Sign-In

6:00 - 10:00 Welcome Party

Upper Pool

Tuesday, August 31, 2004

Morning Session - Update of Nation and States

8:00 - 8:30 Opening Remarks

8:30 - 9:00 Key Note Address

- Len Sanderson, Administrator, NCDOT

9:00 - 10:00 Status of National Research and Activities

Representatives from NHT, NHI, NCHRP

10:00 - 10:30 Break

10:30 - 11:30 Roundtable Discussions of States' Challenges and Solutions

11:30 - 12:00 Summarization of Discussions

12:00 - 1:00 Lunch On Your Own

Afternoon Session — Modeling with WMS and SMS:

1:00 - 2:00 Overview of WMS Software and Applications in Hydrologic and Hydraulic Design

- Jim Nelson, Brigham-Young University

2:00 - 2:30 New Mexico DOT's Experiences with WMS

• Parviz Eftekhari, New Mexico Department of Transportation

2:30 - 3:00 Pennsylvania DOT's Experiences with WMS

Barry Newman, Pennsylvania DOT

3:00 - 3:30 Break

3:30 - 4:30 Overview of SMS Software and Application in Hydraulic Design

- Alan Zundel, Brigham-Young University

4:30 - 5:00 Utah DOT's Experiences with SMS

???, Utah DOT



Transforming Technology and Research into Practice



Wednesday, September 1, 2004

Morning Session A - Hydrology 8:00 - 9:00 Regional Characteristics of Unit Hydrographs and Hyetographs - Coorgo Hormann, Toyas DOT, and David Thompson, Toyas Toch

• George Hermann, Texas DOT, and David Thompson, Texas Tech University

9:00 - 9:30 Recent Updates To NOAA/NWS Precipitation Frequency Estimates

- Geoffrey Bonnin, National Weather Service

9:30 - 10:00 An Evaluation of Hydrologic Procedures in Maryland

- Will Thomas, Michael Baker Jr

10:00 - 10:30 Break

10:30 - 11:30 National Flood Frequency and StreamStats Programs

- Kernell Ries, USGS

11:30 - 12:00 Region of Influence Regression Equations

- Ali Hangul, Tennessee DOT

Morning Session B1 - Plans of Action

8:00 - 8:30 Plans of Action

- Jorge Pagan, FHWA Headquarters

8:30 - 9:00 Minnesota DOT's Plans of Action

- Andrea Hendrickson, Minnesota DOT

9:00 - 9:30 Oklahoma DOT's Plans of Action

- Leslie Lewis, Oklahoma DOT

9:30 - 10:00 Idaho DOT's Plans of Action
- Lotwick Reese, Idaho DOT

10:00 - 10:30 Break

Morning Session B2 - Culverts/Pipes

10:30 - 11:00 Florida DOT HDPE Pipe Research

Rick Renna, Florida DOT

11:00 - 11:30 Bottomless Culvert Research

Sterling Jones, FHWA

11:30 - 12:00 South Dakota Multi-Barrel Box Culvert Research

Rich Phillips, South Dakota DOT, and Sterling Jones, FHWA

12:00 - 1:00 Lunch On Your Own

Afternoon Sessions A and B

1:00 - 5:00 Field Trip to I-26 Extension Project



Transforming Technology and Research into Practice



Thursday, September 2, 2004

Morning Session A - Coastal Engineering

8:00 - 10:00 Coastal Engineering Overview I

Scott Douglass, University of South Alabama

10:00 - 10:30 Break

10:30 - 12:00 Coastal Engineering Overview II

Scott Douglass, University of South Alabama

Morning Session B - Environmental Issues

8:00 - 9:00 Efficiency of Water Quality Inlets

Brant Keller, City of Griffin

9:00 - 9:30 Recent Guidance on the Integrated Unit Process Design Approach and Low Impact Design for Highway Runoff Controls

Marcus Quigley, GeoSyntec

9:30 - 10:00 Asset Management of Stormwater Facilities

- Sonal Sanghavi, Maryland SHA

10:00 - 10:30 Break

10:30 - 11:00 The Use of Stormwater: Case Histories

- Marty Wanielista, StormWater Academy, CFU

11:00 - 11:30 Springshed Water Budgets and Transportation Planning

- Marty Wanielista, StormWater Academy, CFU

11:30 - 12:00 Stormwater Treatment of Wetlands

Kevin White, USA

12:00 - 1:00 Lunch On Your Own

Afternoon Session A - Coastal Engineering

1:00 - 1:30 Storm Tide Hindcasts for Hurricane Hugo:

Into an Estuarine and Riverine Environment

- Scott Hagen, University of Central Florida

1:30 - 2:00 Application of 2-D Numerical Model to Investigate Tidal Bridges

- Serkan Mahmutoglu, EarthTech, Inc.

2:00 - 3:00 Comparison of ADCIRC, RMA2, and FESWMS for Tidal Modeling

Max Sheppard, University of Florida

3:00 - 3:30 Break

3:30 - 4:00 Alaska DOT's Experiences

Mark Miles, Alaska DOT

4:00 - 4:30 Indian River Bridge

Dennis O'Shea, Delaware DOT

4:30 - 5:00 Technical to Practical - Tacoma Narrows Bridge Hydraulic Analysis

Stanley Polasik, Parsons



Transforming Technology and Research into Practice



Thursday, September 2, 2004, cont.

Afternoon Session B - Stream Stability

- 1:00 1:30 NCHRP 20-07 Task 178 Evaluation and Update of NCHRP Project 24-08 "Scour at Bridge Foundations Research Needs"
 - Pete Lagasse, Ayres and Associates
- 1:30 2:00 Evaluation of Natural Channel Bridge Scour Countermeasures
 - Alan Zundel, BYU
- 2:00 2:30 NCHRP 24-19 Environmentally Sensitive Bank Protection
 - John McCullah, Salix Applied Earthcare
- 2:30 3:00 Simplified Stream Reconnaissance
 - Peggy Johnson, State College
- 3:00 3:30 Break
- 3:30 4:00 Maury River Restoration
 - Guy Tudor, Virginia DOT
- 4:00 4:30 Spanning the Ganges at Paksey Hydraulic and Geomorphic Aspects
 - David Froehlich
- 4:30 5:00 Hatachie River Revisited
 - Wesley Peck, Tennessee DOT

Friday, September 3, 2004

Morning Session - Scour

- 8:00 8:30 Regional Scour Characteristics for SCDOT
 - Steve Benedict, USGS
- 8:30 9:00 NCHRP 24-14 Scour at Contracted Openings
 - Steve Benedict, USGS
- 9:00 9:30 Laboratory and 3D Numerical Modeling with Field Monitoring of Regional Bridge Scour in Georgia
 - Terry Sturm, Georgia Tech
- 9:30 10:00 Scour at the Bonner Bridge on North Carolina's Barrier Island
 - Jerry Beard, North Carolina DOT
- 10:00 10:30 Break
- 10:30 11:00 Florida DOT I-10 Chipola River Rock Scour Project
 - Max Sheppard, University of Florida
- 11:00 11:30 Scour Prediction Using the EFA Machine
 - Veronica Ghelardi, FHWA
- 11:30 12:00 Conference Wrap Up